36	Construction of embankment with approved material gravel / murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications. (Page No.133, item No.19.60)								
		1	62.00	30.00	0.45	837.00			
					Total	837.00	144.16	Cum	120662.00
	Basic Rate	136.00							
	Total	136.00							
	Area Weightage @ 6%	8.16							
	Grand Total	**144.16**							
37	Third party inspection							LS	40000.00
38	Electrification charges							LS	60000.00
39	Miscellaneous and unforeseen charges etc.L.S							LS	776.00
							TOTAL AMOUNT		2000000.00

Certificate:

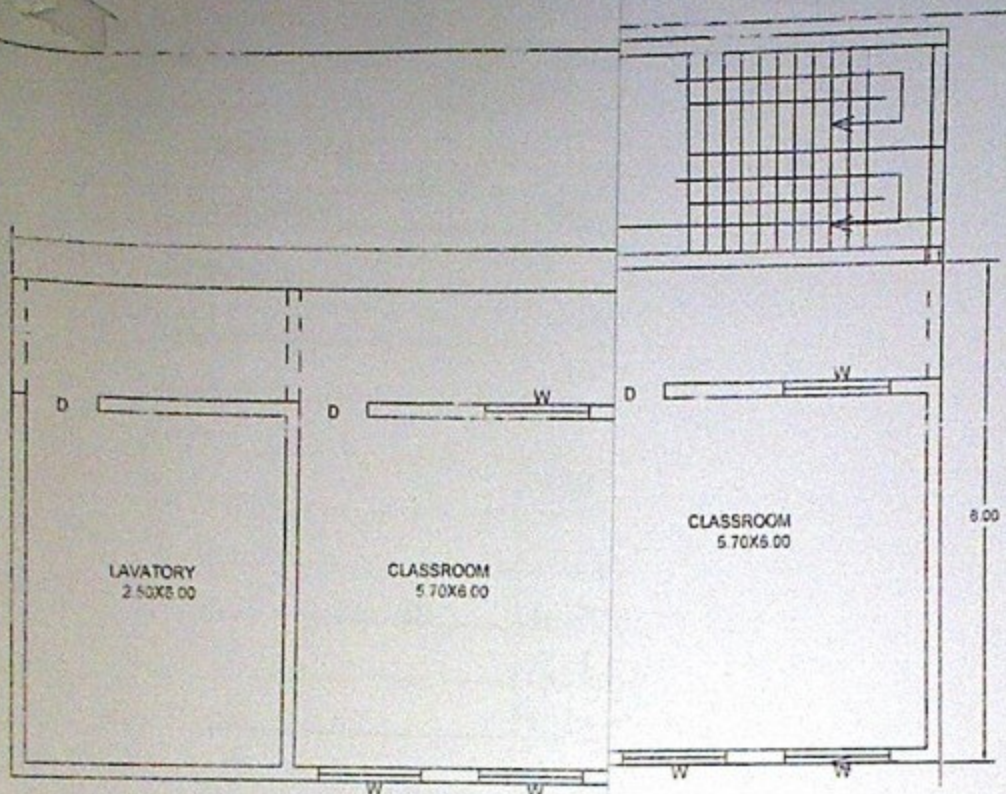
1. The work spot has been inspected and found to be necessary
2. The work spot comes under BBMP Limits
3. The provisions made in the estimate are necessary and minimum
4. The estimate is based on CSR of 2010-11

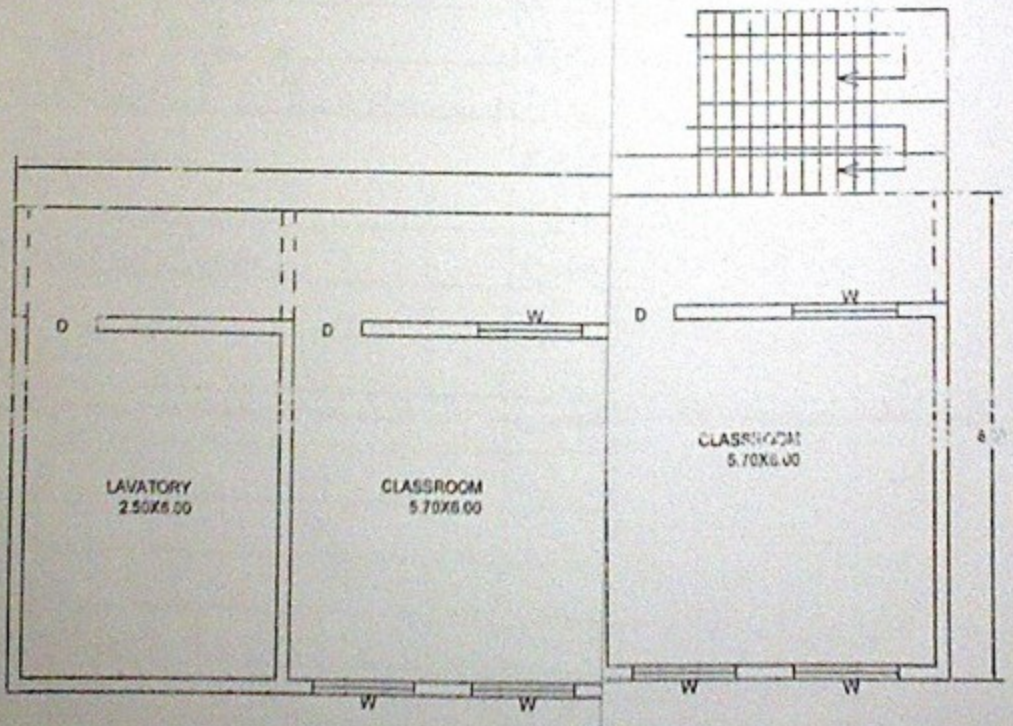
Executive Engineer,
Hebbal Division,
Bruhat Bangalore Mahanagara Palike.

Assistant Engineer
Ward No. 18

Assistant Executive Engineer
Hebbal sub division
BBMP

Executive Engineer
Hebbal division
BBMP





Asst. Executive Engineer
Hebbal Sub-Division
Queens Road,
Bhruth Bangalore Mahanagara Palike
Bangalore - 52.

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work:Providing flooring and Improvements to Govt Model school in Ward No.18

Estimate Cost Rs.20,00,000.00

Sl No	Description of work	No	Dimensions L	B	D	Quantity	Rate	Unit	Amount
1	Dismantling weather proof course and removing and conveying the debris to a distance upto 200m.(P.No.235, I.No.37.44)								
		1	39.95	7.50	0.10	29.96			
					Total	29.96	330.72	Cum	9909.00
	Basic Rate	312.00							
	Total	312.00							
	Area Weightage @ 6%	18.72							
	Grand Total	**330.72**							
2	Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200m (within average thickness of 15cms.).(P.No.235, I.No.37.51)								
	Roam First floor	6	5.70	6.00		205.20			
	Passage	1	39.95	1.60		63.92			
	Second floor	6	5.70	6.00		205.20			
		1	39.95	1.60		63.92			
		1	13.00	0.40		5.20			
					Total	543.44	34.98	Sqm	19010.00
	Basic Rate	33.00							
	Total	33.00							
	Area Weightage @ 6%	1.98							
	Grand Total	**34.98**							
3	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for stairs(excluding landing) except spiral staircase including cost of all materials, labour complete as per specification.(P-15 I.No.4.38.)								
	For Columns	4	1.00	3.50		14.00			
	Beams	6	5.25	0.45		14.18			
		6	3.00	0.45		8.10			
	Staircase	2	3.50	1.70		11.90			
	Landings	1	3.30	1.90		6.27			
	Step	20	1.50	0.20		6.00			
					Total	60.45	339.20	Sqm	20503.00
	Basic Rate	320.00							
	Total	320.00							
	Area Weightage @ 6%	19.20							
	Grand Total	**339.20**							
4	Providing and laying in position reinforced cement concrete of mix 1:1.5:3 with 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for retaining walls, return walls, walls (any thickness) including attached plasters , columns , piers , abutments, pillars , posts, struts, buttresses, string or lacing courses , parapets , coping , bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing , complete as per specifications. (P-12 No. 4.11)								
	Beams	2	5.25	0.23	0.40	0.97			
		2	3.00	0.23	0.40	0.55			
	Column	4	0.23	0.23	3.50	0.74			
	Landings	2	3.00	1.75	0.15	1.58			
	Staircase	2	3.50	1.50	0.15	1.58			
	Step	20	1.50	0.30	0.10	0.90			

	Basic Rate	4539.00			Total	6.31	5150.54	Cum	32493.00
	Diff Cement	320.00							
	Total	4859.00							
	Area Weightage @ 6%	291.54							
	Grand Total	5150.54							
5	Providing TMT. Steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and /or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, lobour, HOM of machinery complete as per specifications(P-16 I.No. 4.46)								
						6.00			
					Total	6.00	5730.36	Qtl	34382.00
	Basic Rate	5406.00							
	Total	5406.00							
	Area Weightage @ 6%	324.36							
	Grand Total	5730.36							
6	Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (P-98								
	Beams	1	5.25	1.35		7.09			
		1	3.00	1.35		4.05			
	Column	4	1.00	3.50		14.00			
	Landings	4	3.00	1.75		21.00			
	Staircase	2	3.50	1.70		11.90			
	Step	20	1.50	0.50		15.00			
					Total	73.04	135.47	Sqm	9894.00
	Basic Rate	127.00							
	Diff Cement	0.80							
	Total	127.80							
	Area Weightage @ 6%	7.67							
	Grand Total	135.47							
7	Providing and laying four courses water proofing treatment with bitumen felt over roof consisting of first and third courses of blown and / or residual bitumen applied hot at 1.45 kg / sqm of area for each course second course of roofing felt type -3 grade I (Hessian based self finish bitumen felt) and forth and final course of stone grit 6mm and down size or pea sized gravel spread at 0.06 cum. / sqm including preparation of surface but excluding grading complete with bitumen felt (Hessian based) Type-3 grade-I blown or / and residual bitumen applied hot 1.4kg/sqm including cost of materials, labour complete as per specifications (P.No.57,I.No.10.4)								
		1	39.95	7.50		299.63			
					Total	299.63	297.86	Sqm	89246.00
	Basic Rate	281.00							
	Total	281.00							
	Area Weightage @ 6%	16.86							
	Grand Total	297.86							
8	Providing and laying in position yelahanka tiles of size 125x 250mm of approved quality and make, over a bed of cement mortar 1:3 an average thickness 25mm over weather proof course and pointed with cement mortar 1:3 mix with red oxide including curing cost of material, labour complete as per specifications . (P.No.57,I.No.10.2)								
	As per QTY item no 7					299.63			

	Basic Rate	542.00			Total	299.63	574.52	Sqm	172141.00
	Total	542.00							
	Area Weightage @ 6%	32.52							
	Grand Total	**574.52**							
9	Providing and fixing Special make glazed vitrified tiles (Granomite finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special roffe adhesive for flooring and skirting etc., complete including providing spears at required interval and removing stains etc., complete.(Page NO. 94, Item No. 14.43)								
	Roam First floor	6	6.00	5.70		205.20			
	Passage	1	39.95	1.60		63.92			
	Second floor	6	6.00	5.70		205.20			
		1	39.95	1.60		63.92			
		6	22.40	0.15		20.16			
		1	83.10	0.15		12.47			
		6	22.40	0.15		20.16			
		1	83.10	0.15		12.47			
					Total	603.49	1173.42	Sqm	708147.00
	Basic Rate	1107.00							
	Total	1107.00							
	Area Weightage @ 6%	66.42							
	Grand Total	**1173.42**							
10	Providing and fixing plain rolled glass 3mm thick with T.W. beading of 10mm thick..(P.No.233 I.No.37.15)								
		19	12.00	0.45	0.45	46.17			
					Total	46.17	595.72	Cum	27504.00
	Basic Rate	562.00							
	Total	562.00							
	Area Weightage @ 6%	33.72							
	Grand Total	**595.72**							
11	Providing and fixing in position fully paneled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications (P-45&46 I No.9.15)								
		4	1.05	2.15		9.03			
					Total	9.03	3018.88	Sqm	27260.00
	Basic Rate	2848.00							
	Total	2848.00							
	Area Weightage @ 6%	170.88							
	Grand Total	**3018.88**							

	Providing and applying one coat with oil bound washable distemper of approved brand and shade on wall surface to give an even shade after thoroughly brooming the surface free from all grease, dirt, loose peases of scales, including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.(P.No.101, I.No.15.50.1)								
	Ceiling	6	6.00	5.70		205.20			
	Walls	12	6.00	3.50		252.00			
		12	5.70	3.50		239.40			
	Lavatries	3	1.25	1.20		4.50			
		1	1.60	1.20		1.92			
		3	4.20	1.50		18.90			
		1	4.90	1.50		7.35			
	Passage	2	5.70	1.50		17.10			
						746.37			
	Deduction	19	1.80	1.35		46.17			
		7	1.05	2.15		15.80			
	61.97/2					61.97			
						715.38			
		715.38	3			**2146.17**			
	Kitchen	4	3.2	3.50		**44.80**			
						2190.97			
		2190.97	2			**4318.94**			
					Total	**4318.94**	**21.20**	**Sqm**	**91562.00**
	Basic Rate	20.00							
	Total	20.00							
	Area Weightage @ 6%	1.20							
	Grand Total	**21.20**							
13	Providing and finishing external walls in two coats with water proof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and lose powdered material, free from mortar drops and other foreign matter most of materials, labour, complete as per specifications.(P.No 102, I.No.15.53.1)								
		2	40.70	13.50		1098.90			
		2	12.50	13.50		337.50			
		3	40.70	1.80		219.78			
		3	40.70	1.20		146.52			
		6	3.50	2.00		42.00			
		6	3.00	2.00		36.00			
		1	62.00	5.50		341.00			
						2221.70			
						30.98			
					Total	**2190.72**	**45.58**	**Sqm**	**99853.00**
	Basic Rate	43.00							
	Total	43.00							
	Area Weightage @ 6%	2.58							
	Grand Total	**45.58**							
14	Providing and applying painting one coats (excluding priming coat) on new wood surface and / or wood based surface with Enamel paint to give an even shade, cleaning, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.(P.N0.103 I.No.15.60.1)								
		7	1.05	2.15	15.80				
	15.8x2.25=35.55x3					106.67			
	Windows	19	1.80	1.35		46.17			
						152.84			
		152.84x3				458.52			
	Kitchen door	1	1.05	2.15	2.25	5.08			

	Basic Rate	70.00			Total	463.60	74.20	Sqm	34399.00
	Total	70.00							
	Area Weightage @ 6%	4.20							
	Grand Total	74.20							
15	Providing and fixing in trenches galvanished / mild steel tubes (medium grade) 32mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. (P.No.79 I.No.13.13)								
						100.00			
					Total	100.00	214.12	Rmt	21412.00
	Basic Rate	202.00							
	Total	202.00							
	Area Weightage @ 6%	12.12							
	Grand Total	214.12							
16	Providing and fixing in trenches galvanished / mild steel tubes (medium grade) 20mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. (P-79 I No.13.11)								
						150.00			
					Total	150.00	136.74	Rmt	20511.00
	Basic Rate	129.00							
	Total	129.00							
	Area Weightage @ 6%	7.74							
	Grand Total	136.74							
17	Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications (Page No.80,								
						15.00			
					Total	15.00	135.68	Rmt	2035.00
	Basic Rate	128.00							
	Total	128.00							
	Area Weightage @ 6%	7.68							
	Grand Total	135.68							
18	Providing and fixing elbows 20mm dia								
						20.00			
					Total	20.00	17.80	Each	356.00
19	Providing and fixing elbows 32mm dia								
						10.00			
					Total	10.00	51.30	Each	513.00
20	Providing and fixing reduced elbows 32x20mm dia								
						10.00			
					Total	10.00	60.20	Each	602.00
21	Providing and fixing reduced elbows 20x15mm dia								
						10.00			
					Total	10.00	22.10	Each	221.00
22	Providing and fixing to wall, do- 160mm ceiling and floor, low density polyethylene pipes 6.00 kgf/sq.cm working pressure 50mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications.. (Page No. 82&83, Item No.13.70.6)								
						100.00			
					Total	100.00	678.4	Rmt	67840.00
	Basic Rate	640.00							

	Total	640.00							
	Area Weightage @ 6%	38.40							
	Grand Total	**678.40**							
23	Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, (approved make) cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications..(P.No.67,I.No.12.4)								
						8.00			
	Basic Rate	1473.00			**Total**	**8.00**	**1561.38**	**Each**	**12491.00**
	Total	1473.00							
	Area Weightage @ 6%	88.38							
	Grand Total	**1561.38**							
24	Providing and fixing CI Nahani trap 10cms x 7.5cms. of approved make conforming to ISIS specifications and construction of cistern in CC 1:2:4 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot)(Page 77, Item No.12.113.1)								
						10.00			
	Basic Rate	220.00			**Total**	**10.00**	**233.20**	**Each**	**2332.00**
	Total	220.00							
	Area Weightage @ 6%	13.20							
	Grand Total	**233.20**							
25	Providing skirting, dado, rises of steps with colour glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. (Page 94, Item No.14.41)								
		4	4.20	1.5		25.20			
		2	5.20	1.50		15.60			
					Total	**40.80**	**838.46**	**Sqm**	**34209.00**
	Basic Rate	791.00							
	Total	791.00							
	Area Weightage @ 6%	47.46							
	Grand Total	**838.46**							
26	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead up to 50 m. after breaking of clods complete as per specification.(P.No.5,I.No.2.3)								
		1	20.00	0.90	1.2	21.60			
					Total	**21.60**	**127.20**	**Cum**	**2748.00**
	Basic Rate	120.00							
	Total	120.00							
	Area Weightage @ 6%	7.20							
	Grand Total	**127.20**							

27	Constructing brick masonry inspection chamber 455x610mm and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I. cover with frame (light duty) 455 x 610mm internal dimensions, total weight of cover with frame to be not less than 38kg. (weight of cover 23kg. and weight of frame 15kg) RCC top slab with cement concrete 1:2:4 mix 20mm and down size granite metal, foundation concrete 1:5:10 with 40mm and down size granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications.600x600mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50m in CM 1:5, C.I. cover with frame (light duty) 600 x								
						3.00			
					Total	3.00	6581.54	Nos	19745.00
	Basic Rate	6209.00							
	Total	6209.00							
	Area Weightage @ 6%	372.54							
	Grand Total	6581.54							
28	Providing and constructing burnt brick masonry for basement and superstructure with approved quality of non- modular bricks of standard size of class designation 35 with cement mortar 1:6 including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P.No.25 I.No.6.3)								
		1	62.00	0.23	0.60	8.56			
		1	96.50	0.23	0.75	16.65			
					Total	25.20	3382.46	Cum	85246.00
	Basic Rate	3143.00							
	Diff Cement	48.00							
	Total	3191.00							
	Area Weightage @ 6%	191.46							
	Grand Total	3382.46							
29	Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(Page No.97,								
		1	62.00	1.45		89.90			
		10	2.00	1.50		30.00			
		20	1.00	0.90		18.00			
		1	96.50	1.75		168.88			
					Total	306.78	128.05	Sqm	39282.00
	Basic Rate	120.00							
	Diff Cement	0.80							
	Total	120.80							
	Area Weightage @ 6%	7.25							
	Grand Total	128.05							
30	Providing and pacing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(Page NO. 83, Item No.13.78)								
						1.00			
					Total	1.00	6410.88	Nos	6411.00
	Basic Rate	6048.00							
	Total	6048.00							
	Area Weightage @ 6%	362.88							

	Grand Total	6410.88								
31	Dismantling the tile work in floor and roof laid in cement or surki mortar including stacking the materials within 50m lead of tiles thickness 10mm to 25mm. (Page No.235, Item No. 37.49)									
		1	13.00	5.00		65.00				
	Roof& Building	1	13.00	3.00		39.00				
	at Nagshetty halli	1	9.50	5.50		52.25				
	Busstand	1	9.50	3.00		28.50				
					Total	184.75	18.02	Sqm	3329.00	
	Basic Rate	17.00								
	Total	17.00								
	Area Weightage @ 6%	1.02								
	Grand Total	18.02								
32	Dismantling burnt brick masonry in clay mortar / lime mortar / cement mortar and stacking the bricks within a radius of 50m and removing the debris to a distance upto 200m. (Page no.235 Item No. 37.47)									
		1	13.00	8.00		104.00				
		1	9.50	7.00		66.50				
					Total	170.50	106.00	Sqm	18073.00	
	Basic Rate	100.00								
	Total	100.00								
	Area Weightage @ 6%	6.00								
	Grand Total	106.00								
33	Dismantling size stone masonry in clay mortar and stacking the size stone within a radius of 50m and removing the debris to a distance upto 200m. (Page No.235, item No.37.48)									
		2	13.00	0.60	0.60	9.36				
		2	9.50	0.60	0.60	6.84				
		2	9.50	0.60	0.60	6.84				
		2	7.00	0.60	0.60	5.04				
					Total	28.08	125.08	Cum	3512.00	
	Basic Rate	118.00								
	Total	118.00								
	Area Weightage @ 6%	7.08								
	Grand Total	125.08								
34	Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per specifications (Page No.5,									
		2	13.00	0.23	4.00	23.92				
		4	8.00	0.23	4.00	29.44				
		2	9.50	0.23	4.00	17.48				
		4	7.00	0.23	4.00	25.76				
	Debris	1	16.50	5.50	1.05	95.29				
					Total	191.89	106.00	Cum	20340.00	
	Basic Rate	100.00								
	Total	100.00								
	Area Weightage @ 6%	6.00								
	Grand Total	106.00								
35	Conveying of the Excavated work by using private vehicle with loading & unloading etc., Complete with a lead of 10kms									
	AS per Qty item no 34+32+26+1+2					441.12				
					Total	441.12	93.06	Cum	41051.00	